



American
Appliances
Inc.

R134a

1、 Technical Specification

1.1、 R134a-LBP Technical Data Sheet

Model	Voltage(V)	Frequency (Hz)	Cooling Type	Displacement. (cm ³)	Cooling Capacity(W)	COP (W/W)	Motor Type	Certification	Compressor Height (mm)
60 Hz Series									
HY90YK52	127~	60	FC	8.1	290	1.47	RSCR	UL/CSA	191
HYE72YD42	115-127~	60	ST	6.9	238	1.80*	RSCR	UL	173.5
HY72YT42	115-127~	60	FC	6.9	235	1.65	RSCR	UL	191
HY69Y42	115~	60	FC	6.9	225	1.25	RSIR	UL/CSA	191
HYE60YT42	115~	60	ST	6.0	210	1.65	RSCR	UL/CSA	173.5
HYE60Y42	115~	60	ST	6.0	200	1.28	RSIR	UL/CSA	167
HYE60Y52	127~	60	ST	6.0	200	1.28	RSIR	UL	167
HYE55YT42▲	115~	60	ST	5.5	180	1.65	RSCR	UL/CSA	173.5
HYE55Y42	115~	60	ST	5.5	175	1.28	RSIR	UL/CSA	167
HYE55Y52	127~	60	ST	5.5	175	1.28	RSIR	UL	167
HYE51YT42	115~	60	ST	5.1	170	1.65	RSCR	UL/CSA	173.5
HYE51YG42	115~	60	ST	5.1	165	1.43	RSCR	UL/CSA	167
HYS45YT42	115~	60	FC	4.5	145	1.55	RSCR	UL/CSA	159.5
HYB30Y72▲	115-127~	60	ST	3.1	98	1.38	RSCR	UL	153.6
HYE55YT42▲	115~	60	ST	5.5	180	1.65	RSCR	UL	173.5
HYE Series									
HYE55Y63	220-240~	50-60	ST	5.5	150	1.28	RSIR	CCC/VDE	167
HYE55YG63	220-240~	50-60	ST	5.5	150	1.35	RSCR	CCC/VDE	167
HYE55Y	220-240~	50	ST	5.5	150	1.28	RSIR	CCC/VDE	167
HYE60Y63	220-240~	50-60	ST	6.0	170	1.28	RSIR	CCC/VDE	167

Model	Voltage(V)	Frequency (Hz)	Cooling Type	Displacement. (cm ³)	Cooling Capacity(W)	COP (W/W)	Motor Type	Certification	Compressor Height (mm)
HYE60YG63	220-240~	50-60	ST	6.0	170	1.35	RSCR	CCC/VDE	167
HYE60Y	220-240~	50	ST	6.0	170	1.28	RSIR	CCC	167
HYE60YG	220-240~	50	ST	6.0	170	1.43	RSCR	CCC/VDE	173.5
HYE60YK	220-240~	50	ST	6.0	175	1.52	RSCR	CCC/VDE	173.5
HYE69YK	220-240~	50	ST	6.7	195	1.52	RSCR	CCC/VDE	173.5
HYE55YG62	220-240~	60	ST	5.1	170	1.47	RSCR	VDE	173.5
HYE69Y63	220-240~	50-60	FC	6.7	190	1.26	RSIR	CCC	173.5
HYE69Y	220-240~	50	ST	6.7	190	1.26	RSIR	CCC/VDE	173.5
HYE69YG	220-240~	50	ST	6.7	190	1.43	RSCR	CCC	173.5
HYE55YT	220-240~	50	ST	5.5	155	1.65	RSCR	CCC	173.5
HYE55YT63	220-240~	50-60	ST	5.5	180	1.65	RSCR	CCC/VDE	173.5
HYE60YS	220-240~	50	ST	6.0	180	1.70	RSCR	CCC/VDE	173.5
HYE60YX	220-240~	50	ST	6.0	185	1.75	RSCR	CCC/VDE	173.5
HYE69YS	220-240~	50	ST	6.7	195	1.70	RSCR	CCC	173.5
HYE55YL63	220-240~	50-60	ST	5.5	150	1.15	RSIR	CCC/VDE	167
HYE60YL63	220-240~	50-60	ST	6.0	170	1.15	RSIR	CCC	167
HYE69YL	220-240~	50	ST	6.7	195	1.15	RSIR	CCC	173.5
HYE60YKL	220-240~	50	ST	6.0	180	1.50	RSCR	VDE	173.5
HYE69YKL	220-240~	50	ST	6.0	195	1.50	RSCR	VDE	173.5
HYB Series									
HYB35Y	220-240~	50	ST	3.4	90	1.30	RSIR	CCC/VDE	153.6
HYB41YL	220-240~	50	ST	4.1	110	1.20	RSIR	VDE	153.6
HYS Series									
HYS45Y	220-240~	50	ST	4.5	125	1.30	RSIR	CCC/VDE	153

Model	Voltage(V)	Frequency (Hz)	Cooling Type	Displacement. (cm ³)	Cooling Capacity(W)	COP (W/W)	Motor Type	Certification	Compressor Height (mm)
HYS45YL	220-240~	50	ST	4.5	125	1.20	RSIR	CCC/VDE	153
HY Series									
HY69Y63	220-240~	50-60	FC	6.9	195	1.12	RSIR	CCC/VDE	191
HY69YH	220-240~	50	ST	6.9	195	1.35	RSIR	CCC/VDE	185.6
HY81Y	220-240~	50	FC	8.1	235	1.25	RSIR	CCC/VDE	191
HY90Y	220-240~	50	FC	9.0	265	1.30	RSIR	CCC/VDE	191
HY90YL	220-240~	50	FC	9.0	265	1.30	RSIR	CCC	191
HY69YG	220-240~	50	ST	6.9	195	1.45	RSCR	CCC/VDE	185.6
HY69YGL	220-240~	50	ST	6.9	195	1.45	RSCR	CCC	185.6
HY81YG	220-240~	50	ST	8.1	235	1.45	RSCR	CCC/VDE	191
HY81YGL	220-240~	50	ST	8.1	235	1.45	RSCR	CCC	191
HY90YG	220-240~	50	FC	9.0	270	1.45	RSCR	CCC/VDE	191
HY113Y	220-240~	50	FC	11.3	330	1.30	CSIR	CCC/VDE	193
HY131Y	220-240~	50	FC	13.1	380	1.30	CSIR	CCC	193
HY81YT	220-240~	50	ST	8.1	235	1.65	RSCR	CCC/VDE	193
HY81YTL	220-240~	50	ST	8.1	235	1.65	RSCR	CCC	191
HY94YT	220-240~	50	ST	9.4	280	1.65	RSCR	CCC/VDE	193
HY81YL	220-240~	50	ST	8.1	235	1.10	RSIR	CCC	193
HY113YL	220-240~	50	FC	11.3	330	1.10	CSIR	CCC	193

Note: 1 *with E-PTC;
compressor.

2、 “▲”are being-developed;

3、 HYB35Y is HYB compressor, HYS45Y is HYS

Working condition limit :R134a		Test conditions	According to ASHRAE
Max ambient temperature	43[°C]	Evaporating temperature	-23.3°C
Evaporation temperature range	-35~-15[°C]	Condensing temperature	54.4°C
Working voltage range.	187~254/98~127[V]	Subcooling temperature	32.2°C
Max discharge pressure	2.0[Mpa] gauge pressure	Suction temperature	32.2°C
Max allowable housing temperature	95[°C]	Ambient temperature	32.2°C
Max discharge temp.	125[°C]		
max pressure housing endured	2.7 [Mpa] gauge pressure		
Low voltage start	0.4/0.4Mpa(gauge pressure)187V/ 98V		

1.2、 R134a –MBP/HBP R134a-MBP、 HBP Technical Data Sheet

Model	Voltage(V)	Frequency (Hz)	Cooling Type	Displacement. (cm ³)	Cooling Capacity(W)	COP (W/W)	Motor Type	Certification	Compressor High(mm)
HY81YZ42	115~	60	FC	8.1	870	2.02	CSIR		193
HY69YZ42	115~	60	FC	6.9	740	2.02	CSIR		193
HY69YZ	220-240~	50	FC	6.9	645	2.20	CSIR	CCC	193
HY81YZ	220-240~	50	FC	8.1	745	2.20	CSIR	CCC	193
HY94YZ	220-240~	50	FC	9.4	860	2.20	CSIR	CCC	193
HY113YZ	220-240~	50	FC	11.3	1000	2.20	CSIR	CCC	193
HY131YZ	220-240~	50	FC	13.1	1160	2.20	CSIR	CCC	193
HY153YZ	220-240~	50	FC	15.3	1300	2.15	CSIR	CCC	193
HYE69YZ	220-240~	50	FC	6.9	720	2.50	CSIR	CCC/VDE	173.5
HYE81YZ	220-240~	50	FC	8.1	830	2.30	CSIR	CCC/VDE	173.5

Note: HYE69YZ, HYE81YZ is HYE series compressor

Working condition limit :R134a-HBP

Max ambient temperature	43[°C]
Evaporation temperature range	-5~15 [°C]
Working voltage range.	187~254/98~127[V]
Max discharge pressure	2.0[Mpa] gauge pressure
Max allowable housing temperature	95 [°C]
Max discharge temp.	125[°C]
max pressure housing endured	2.7 [Mpa] gauge pressure
Low voltage start	0.61/0.61Mpa(gauge pressure)187V/ 98V

Test conditions

**According to
ASHRAE**

Evaporating temperature	7.2°C
Condensing temperature	54.4°C
Subcooling temperature	46.1°C
Suction temperature	35°C
Ambient temperature	35°C